

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-2 (Canceled).

Claim 3 (Currently Amended): The method according to claim † 86, wherein the first member is selected from the group consisting of at least one first tooth and at least one first dentition;

wherein the second member is selected from the group consisting of at least one second tooth and at least one second dentition;

wherein the method further comprises the steps of:
gathering wherein additional third information about a second feature of a first specimen, wherein the first specimen comprises the first member;

storing said third information as second data;
gathering fourth information about the second feature of a second specimen, wherein the second specimen comprises the second

member; and

comparing the fourth information to the second data to determine if the fourth information matches or approximately matches the second data to determine whether the second specimen is the first specimen or is not the first specimen;

wherein the second feature is at least a second portion of at least one second characteristic selected from the group consisting of a second form, a second shape, a second contour, a second volume, a second outline, a second scope, a second proportion, a second measure, a second size, a second particularity, a second surface structure, a second outer geometry, a second inner geometry, a second relation, a second color, a second structure, a second setup, a second lamination, a second composition, a second arrangement, a second reflected light, second light let through, second reflected electromagnetic radiation, second electromagnetic radiation let through, a second spectral composition, a second spectral composition pattern, a second spectral range, a second beam path of the member, a second reflected light pattern, second member data, a second Fourier Transformation, a second Eigenface, a second template, a second artificial parameter, a second natural parameter, a second point, a second intersecting point, a second corner point, a second length, a second line, a second angle, a second surface, a second

plane, a second spatial area, a second area, a second space, a second edge, a second pattern, a second grid, a second grid element, a second microstructure, a second macrostructure, and a second texture;

~~dentification features and/or structures and/or areas and/or parts and/or sections hereof wherein the second feature of the first specimen is located in the nearer near to or remote area of from the first dentition and/or teeth and/or the tooth member; and and/or tooth section (e.g., body, head, face, ear, nose, eyes, in particular cornea, arm, hand, leg, foot, torso, finger, toe, etc., and/or a part and/or a section, area, portion thereof, etc.) are included in the acquisition, processing and/or evaluation of features and/or combined with the latter~~

wherein the second feature of the second specimen is located near to or remote from the second member.

Claim 4 (Currently Amended): The method according to claim ~~± 86, for purposes of identifying persons, individuals or living beings based on one or more of the recognition features and/or identification features wherein the first feature is carried by the latter or affixed to them the first member and or is shown; and~~

wherein the first feature is carried by or affixed to the second member or is shown, wherein the acquisition of the latter takes place by means of suitable devices, instruments, systems and/or accessories (e.g., a laser, camera, etc.).

Claim 5 (Currently Amended): The method, according to claim ~~± 86~~, according to which wherein at least one of one or more recognition features and/or identification the features can be first information and the second information is acquired even gathered at a greater selected distance of the recognition feature from the location of the acquisition at least one of the first device and the second device; and

instrument, system and/or accessory, and/or one or more features and/or areas of use for identification and/or verification can be wherein the first feature is magnified as a part of the gathering from the selected distance.

Claim 6 (Currently Amended): The method according to claim ~~± 86~~, wherein the first member is a person or a present person is detected comprises the first member;
wherein the second member is a second person or a second person comprises the second member; and

wherein the first information and the second information are gathered in a specific or prescribed space, or in an area, and/or or localized, etc.

Claim 7 (Currently Amended): The method, according to claim ~~± 86~~, which uses wherein the first feature is a the natural features feature and/or identification features (e.g., body, object, material, product-intrinsic or characteristic structure or relief).

Claim 8 (Currently Amended): The method, according to claim ~~± 86~~, but one that uses wherein the first feature is artificially generated and/or or is processed features and/or identification features (e.g., artificially produced relief, e.g., chemically, via lasers, etc.).

Claim 9 (Currently Amended): The method according to claim ~~± 86~~, wherein the identification feature(s) and/or structure(s) and/or feature(s) drawn upon for identification and/or verification first feature can be recognized and/or and can be seen and/or not seen and/or recognized with the naked eye or cannot be seen with the naked eye.

Claim 10 (Currently Amended): The method according to claim
+ 86, further comprising the step of:

gathering extra information about an extra feature of the
first member;

storing the extra information as extra data;

gathering second extra information about the extra feature
of the second member; and

comparing the second extra information with the extra data
to determine whether the second extra information matches or
approximately matches the extra data to confirm whether the
second member is the first member or is not the first member;

wherein the identification features and/or extra feature
and/or relief and/or structure, etc., contains and/or has or can
have allocated to it, for example, is selected from the group
consisting of an identifier, a code, feature information, about
and/or and a description, etc., of this person, individual and/or
living being, and/or the object and/or material,; and

which is wherein the extra feature is connected with the
object first member or body (part) and is connected with the
second member and/or the artificially generated and/or natural
feature, relief and/or structure has allocated to it a code
and/or information, and/or identifier for identifying or

~~verifying and/or describing this object, material, etc.,
representing it.~~

Claim 11 (Currently Amended): The method according to claim
± 86, wherein the first device, instrument, system and/or
accessory for acquisition is a correspondingly suitable and/or
capable comprises a laser;

~~and/or a laser system suitable and/or capable for this
purpose with at least one light transmitter; and~~

~~at least, for example, one additional part selected from the
group consisting of one a receiver, a sensor, a detector, and a
camera, etc. suitable for these purposes, and/or includes the
latter.~~

Claim 12 (Currently Amended): The method according to claim
± 86, wherein the first device, instrument, system and/or
accessory used is at least comprises at least one item selected
from the group consisting of a camera, and/or a camera system,
and/or a receiver, and/or a sensor, and/or a detector, and/or an
acquisition element, and/or means capable of an image acquisition
device, and/or a feature acquisition device, and/or and a feature
tracing device and/or contains at least one of the latter.

Claim 13 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the first information ~~and/or data about the structure that can be used for identification and/or verification and/or the features and/or feature and/or identification drawn upon is obtained and/or acquired and/or processed and/or used stored as first data in 2D, and/or 3D, or both 2D and 3D; and wherein and/or the information and/or the first data can be generated in 3D.~~

Claim 14 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the acquisitions gathering of the first information is performed under at least one condition selected from the group consisting of take place from a perspective, and/or from one side, and/or from more than one perspective, and/or from more than one side, and/or and thereby enable from a manner enabling a reconstruction of identification features and/or parts and/or sections thereof the first feature in 3D.

Claim 15 (Currently Amended): The method according to claim ~~‡ 86, wherein that enables the acquisition of reference data and/or newly acquired data the first information, the second information, or both the first information and the second~~

information are gathered directly on from the original the first member, directly from the second member, or directly from both the first member and the second member, and/or on are gathered from a negative (e.g., imprint, image, etc.) of the the first member, from a negative of the second member, or from both a negative of the first member and a negative of the second member, or are gathered from a copy (e.g., model, etc.) of the identification feature used and/or drawn upon for identification and/or verification, detection or recognition first member, from a copy of the second member, or from both a copy of the first member and a copy of the second member.

Claim 16 (Currently Amended): The method according to claim ~~1~~ 86, which utilizes the capability of identification and/or verification by means of a device, instrument, system and/or accessory capable of acquiring the, for example, identification feature, form, shape, contour, outline, surface structure, etc., generating data and/or data segments and/or partial data that can be compared with data and/or data segments and/or partial data obtained from a previously executed acquisition process using another method and/or instrument, system, accessory and/or apparatus for this purpose, wherein.

- At least one identification feature (e.g., outer form or partial form, shape, contour and/or outline, etc.) and/or a portion thereof and/or a section thereof is acquired by means of a device, instrument suitable for this purpose and/or a suitable system and/or means, wherein usable data, partial data and/or data segments are generated in this way for this procedural purpose;
- The data and/or data segments and/or partial data acquired in this way are stored and/or filed;
- The identification data records acquired and stored in this way or another way by comparing newly acquired data, partial data and/or data segments obtained by means of one or another device, instrument also suitable for this purpose, and/or a suitable system and/or means to the previously stored or filed data, partial data or data segments

wherein the first device works according to a first device operating principle;

wherein the second device works according to a second device operating principle; and

wherein the second device is not the first device or the second device operating principle is different from the first device operating principle.

Claims 17-19 (Canceled) .

Claim 20 (Currently Amended) : The method according to claim ~~± 86~~, wherein the first device has at least two difference different acquisition capabilities; ~~are combined, e.g., laser~~ ~~acquisition is combined with at least camera recording and/or~~ ~~sensor and/or image acquisition, a camera acquisition with~~ ~~detector acquisition and/or some other combination, etc., is used~~ ~~for data acquisition during identification and/or verification,~~ ~~and/or for purposes of reference data acquisition and/or~~ ~~generation, etc and~~

wherein the at least two different acquisition capabilities are used by the first device to gather the first information.

Claim 21 (Currently Amended) : The method according to claim ~~± 86~~, further comprising the steps of:

gathering first conventional information about a first
conventionally-authenticated feature of the first member;
storing the first conventional information as conventional
data;

gathering second conventional information about the first

conventionally-authenticated feature of the second member; and
comparing the second conventional information with the
conventional data to determine whether the second conventional
information matches or approximately matches the conventional
data to confirm that the second member is the first member or is
not the first member and also according to previously known
conventional methods (e.g., facial recognition, finger, iris
scan, etc.), latter is additionally enhanced and/or combined by
and/or with upstream and/or downstream and/or simultaneous color
acquisition and/or color determination and/or processing and/or
image color acquisition and/or acquisition of spectral
composition and/or color characteristics and/or reflected light,
etc., e.g., relating to (personal) feature(s) and/or
identification features and/or areas and/or partial areas usable
for identification and/or verification.

Claim 22 (Currently Amended): The method according to claim
‡ 21, which further comprising the steps of:
gathering first enhancement information about the first
conventionally-authenticated feature of the first member;
storing the first enhancement information as enhancement
data;

gathering second enhancement information about the first conventionally-authenticated feature of the second member; and comparing the second enhancement information to the enhancement data to determine whether the second enhancement information matches or approximately matches the enhancement data to confirm that the second member is the first member or is not the first member;

wherein the first enhancement information and the second enhancement information are about at least one enhancement characteristic selected from the group consisting of enhances and/or combines one or more of the preceding methods with one or more conventional methods (e.g., iris scan, finger scan, facial acquisition, etc.) or enhances one or more conventional methods with one or more of the preceding or following methods color, spectral composition, color characteristics, and reflected light;

wherein the first enhancement information is gathered upstream from, simultaneously to, or downstream from a first location where the first conventional information is gathered; and

wherein the second enhancement information is gathered upstream from, simultaneously to, or downstream from a second location where the second conventional information is gathered.

Claim 23 (Currently Amended): The method according to claim ~~‡ 88~~, wherein the second feature is at least the second portion of the second color acquisition and resultant usable data can be used relative to another material than the one drawn upon for the form, shape, outline and/or surface structure, etc., and/or encode its data and/or represent the latter and/or can be used for reference data selection relative to the latter.

Claim 24 (Currently Amended): The method according to claim ~~‡ 87~~, wherein for identification and/or verification based on color acquisition and/or color determination and/or processing and/or image color acquisition, acquisition of spectral composition for the color characteristics, etc. (e.g., iris, tooth, skin, hair color, etc.) the second information is about a color characteristic; and
wherein the fourth information is about the color characteristic.

Claim 25 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the first device comprises at least one device part selected from the group consisting of for acquiring and/or obtaining authentication data, e.g., by means of a color

measuring instrument, a sensor, a detector, a spectral photometer, a three-point measuring device, a laser (system) system, color measuring equipment, a color sensors sensor, an image processing processor, color analysis of image, photo, a video camera, a digital camera, a camera, an image recording system, an image processing system, an image acquisition system, a camera system, sensor, detector, acquisition of a ray path path-acquiring system, a system for the acquired acquiring the spectral composition of reflected light, etc. a system for acquiring electromagnetic radiation, a system for the phase comparison method, and a system for structured light projection.

Claim 26 (Currently Amended): The method according to claim 86, further comprising the step of:

printing out the first data in corresponding dental
nomenclature, in dental product mixture ratios, or in
colorimetric numbers for assisting the comparison of the first
data with the second information;

wherein the first feature is the for color.

identification through image acquisition and/or color
sensors or color acquisition and color processing, in particular
and/or for example for dental purposes, comprising.

- ~~Image acquisition and/or color sensors and/or color measurement,~~
- ~~Conversion of detected information into data,~~
- ~~Possible processing of information within a neuronal network,~~
- ~~Utilization of these data to obtain information about tooth color, e.g., printed out in the corresponding dental nomenclature and/or in dental product mixture ratios, in colorimetric numbers, etc.~~

Claim 27 (Currently Amended): The method according to claim ~~± 86~~, further comprising the step of:

~~illuminating in which at least the a first area or feature section drawn upon for identification or verification of the first member and a second area of the second member is illuminated with a light source;~~

~~wherein the light source has at least a radiated power radiation intensity measuring at least that of daylight at the first location of the object to be detected first member and at the second location of the second member;~~

~~and when used on a living organism, a wherein the radiated~~

power radiation intensity for the light source at the corresponding first location of the object or identification feature to be detected first member and at the second location of the second member measuring measures less than the maximum permissible radiated power depending on application site, e.g., for the (human) eye or skin and/or at which the radiated power at the feature measures at least that of sunlight, but at most lies below the power that would be damaging to the first feature of the first member and the first feature of the second member; and and/or wherein that the light from the light source used to illuminate at least the identification feature is at least one light selected from the group consisting of lies within the visible spectrum and/or encompasses and/or also a light that encompasses a region and/or several regions of invisible light, and/or a light that encompasses a region of visible light, and/or the light a light that is spectrally limited, and/or a light that is monochromatic, and/or and light that is laser light.

Claim 28 (Currently Amended): The method according to claim ± 86, wherein, at a maximum of each and/or after n-defined and/or after a timeframe to be stipulated and/or following the last identification and/or verification and/or reference data

acquisition, further comprising the steps of:

choosing a tolerance range based on a device safety standard requirement;

testing the second information to determine if the second information lies within the tolerance range; and

updating the model and/or reference first data are automatically updated, either during the identification or verification process and/or separately via acquisition with the second information if which is incorporated into the reference data storage device and/or model filing location if the data are still in the proper procedural framework, i.e., the new data the second information correlates with or lies within in the tolerance range of the reference and/or model data and/or the tolerance range can be selected or stipulated depending on the system and accuracy requirement, e.g., based on the safety standard.

Claim 29 (Currently Amended): The method according to claim ± 86, further comprising the step of:

finding the first data, in order to compare the second information with the first data, using wherein data from the acquisition of the personal feature are newly acquired according

~~to one or more of the preceding methods, which are wholly or partially used by the at least a part of the second information in a search program to find the reference data, with which the newly acquired data, partial data and/or data segments can be compared.~~

Claim 30 (Currently Amended): The method according to claim ~~± 87, wherein the second information is about a conventionally-authenticated feature; and~~

~~wherein the fourth information is about the conventionally-authenticated feature wherein use is made of data, partial data and/or data segments from acquisition by means of previously known methods (face, iris, fingerprint, etc.) and/or by means of new methods (e.g., dentition, tooth, tooth section, etc.), as a pin code or password replacement, which can also be utilized by the search program to find the reference data with which the newly acquired data or data segments can be compared, and/or as reference data for the data or data segments of acquisition.~~

Claim 31 (Currently Amended): The method according to claim ~~± 87, wherein the second information is stored as portable code data in a first portable data storage device;~~

wherein the fourth information is gathered from a second portable data storage device;

wherein a search program is used to compare the fourth information with data in the database; and

wherein the second member carries the second portable comprising the input of a coded and/or supply of the system with data, e.g., from a (portable) data storage device, which the person to be identified or verified carries, for example, so that the search program can more quickly find the reference data with which the newly acquired data are to be compared, and/or as proof that the person being checked is the owner of this data carrier and/or ID and/or passport, etc.

Claim 32 (Currently Amended): The method according to claim ~~± 87, which uses~~ wherein the second information is about a second feature;

wherein the fourth information is about the second feature; and

wherein the second feature is at least a second portion of at least one second characteristic selected from the group consisting of a second form, a second shape, a second contour, a second volume, a second outline, a second scope, a second

proportion, a second measure, a second size, a second
particularity, a second surface structure, a second outer
geometry, a second inner geometry, a second relation, a second
color, a second structure, a second setup, a second lamination, a
second composition, a second arrangement, a second reflected
light, second light let through, second reflected electromagnetic
radiation, second electromagnetic radiation let through, a second
spectral composition, a second spectral composition pattern, a
second spectral range, a second beam path of the member, a second
reflected light pattern, second member data, a second Fourier
Transformation, a second Eigenface, a second template, a second
artificial parameter, a second natural parameter, a second point,
a second intersecting point, a second corner point, a second
length, a second line, a second angle, a second surface, a second
plane, a second spatial area, a second area, a second space, a
second edge, a second pattern, a second grid, a second grid
element, a second microstructure, a second macrostructure, and a
second texture identification features, color, parts thereof,
etc., and/or data relating thereto as data and/or codes for data
selection via the search program for identification and/or
verification.

Claim 33 (Currently Amended): The method according to claim ~~± 86~~, ~~used for wherein at least one of the first device and the second device are part of a toll system.~~

Claim 34 (Currently Amended): The method according to claim ~~± 86~~, ~~which correlates, for example, the structures, features, regions, etc., wherein the first member is selected from the group consisting of at least one first tooth and at least one first dentition; and~~

~~wherein the second member is selected from the group consisting of at least one second tooth and at least one second dentition. with a tooth, teeth or tooth sections, tooth features, etc.~~

Claim 35 (Currently Amended): The method according to claim ~~± 3~~, ~~which utilizes wherein the first feature has at least a part of a quality selected from the group consisting of naturally existing, and/or naturally distinct, and/or artificially distinct, and/or and artificially constructed; and~~

~~wherein the second feature has at least a second part of a second quality selected from the group consisting of naturally existing, naturally distinct, artificially distinct, and~~

~~artificially constructed features, points and/or and intersecting points and/or particularities and/or their relation to and/or among each other, in particular exclusively on the dentition, tooth, teeth and/or tooth sections in and/or in combination with surrounding identification features (e.g., body, head, face, ear and/or items and/or objects and/or parts thereof, etc.) and/or exclusively on surrounding identification features, e.g., as data and/or as data foundation for identification and/or verification.~~

Claim 36 (Currently Amended): The method according to claim ~~± 86, wherein the first feature has a quality selected from the group consisting of naturally existing, and/or naturally distinct, and/or artificially distinct, and/or and artificially constructed features, points and/or and intersecting points, particularities, etc., are detected and/or recognized by the system, and/or can be used for identification and/or verification.~~

Claim 37 (Currently Amended): The method according to claim ~~± 86, wherein the first feature is at least a portion of one point and/or feature and/or particularity of the dentition, teeth, tooth and/or tooth sections forms a relation to the~~

environment, e.g., body, head, face, ear and/or parts thereof, etc., and/or to at least one point and/or feature and/or particularity, and/or that at least two points and/or features and/or particularities form a relation to each other and/or to the environment (points and/or features and/or particularities), which can be used for purposes of identification and/or verification.

Claim 38 (Currently Amended): The method according to claim ~~± 86~~, wherein the first feature is at least a portion of a pattern in which points and/or features and/or particularities, etc., in space and/or in relation to each other are applied as patterns for purposes of identification and/or verification.

Claim 39 (Currently Amended): The method according to claim ~~± 86~~, wherein the first feature is at least a portion of a line at least two naturally existing and/or artificially generated distinct points and/or features literally or figuratively are connected, e.g., by the identification and/or verification system, or by the person to be identified or verified, thereby forming an artificial or natural connecting line and/or intersections of connecting lines for additional points

~~(constructed points, intersecting points), which in turn can be connected literally or figuratively (additional constructed connecting lines), so that data can be derived from them.~~

Claim 40 (Currently Amended): The method according to claim ~~± 39~~, wherein the first feature is at least a portion of an intersecting point connecting lines, which can also be elongated, can intersect, e.g., with naturally existing structures or structural breaks, changes in continuity, etc., and these intersections (constructed points) also generate data about their relation to each other and/or to the environment and/or other points and/or connected with each other and/or with other points, form lines and produce data that can be used for identification and/verification.

Claim 41 (Canceled).

Claim 42 (Currently Amended): The method according to claim ~~± 86~~, wherein ~~at least one connecting line between two naturally existing distinct and/or artificially generated constructed points and/or features and/or constructed line and/or a line deliver the first feature is at least a portion of data about~~

their a length.

Claim 43 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the first feature is at least a portion of at least one characteristic selected from the group consisting of data formation for identification and/or verification is based at least on an angle, a surface, a plane and/or ~~and the a~~ space formed by (connecting) lines between points and/or features and/or particularities and/or by points and/or features and/or particularities themselves (e.g., corner points).

Claim 44 (Currently Amended): The method according to claim ~~‡ 86~~, further comprising the steps of:

measuring a distance between the first device and the first member;

measuring a gathering angle between the first device and the first member;

using the distance, the gathering angle, or both the distance and the gathering angle to reconstruct the first information from the first data; and

comparing the reconstructed first information with the

second information;

wherein the distance is the same as the distance between the first device and the first member when the first information was gathered;

wherein the gathering angle is the same as the angle between the first device and the first member at the time the first information was gathered; and

wherein the first feature is at least a portion of at least one characteristic selected from the group consisting of lengths a length, angles an angle, surfaces a surface, planes a plane, and/or and a spatial areas area can be reconstructed for the identification and/or verification process if the either the distance of the structure to be evaluated or the feature to be evaluated from the acquisition device (e.g., object-lens distance) and/or the angle during reference data acquisition is known.

Claim 45 (Currently Amended): The method according to claim ~~± 87~~, wherein the first feature is at least a portion of one point and/or feature and/or particularity and/or at least one connecting line and/or lines and/or surface and/or surfaces and/or at least one space in space and/or in relation thereto

and/or in relation to each other can be used as a pattern usable for identification and/or verification or a correspondingly usable pattern, and/or for information and/or data generation for the aforementioned purpose.

Claim 46 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the first feature is at least a portion of a grid or is at least a portion of a intersections between a horizontal line, vertical line, grid element lying real and/or imagined over the image intersect natural structural lines, continuity changes and/or constructed lines and/or connecting lines, and that these intersections form or can form the basis for generating data or patterns usable for identification and/or verification.

Claim 47 (Currently Amended): The method according to claim ~~‡ 86~~, wherein the first feature is at least a portion of a grid;

wherein the grid comprises horizontal lines and vertical lines;

wherein the horizontal lines and/or are equidistant from each other or are not equidistant from each other;

wherein the vertical lines are equidistant from each other and/or or are not equidistant form from each other;

wherein and/or the grid has further comprises additional grid elements;

wherein at least two of the additional grid elements have of an identical size;

wherein at least two of the additional grid elements have and/or different sizes;

wherein at least one horizontal and/or the distance between horizontal lines of the grid can be adjusted;

wherein at least one vertical distance between and/or the and/or vertical lines of the grid can be adjusted; and

wherein and/or the a size of the grid(s) grid can be adjusted.

Claims 48-49 (Canceled).

Claim 50 (Currently Amended): The method according to claim ~~± 86~~, wherein the first feature is at least a portion of a line, a horizontal lines and/or vertical lines and/or grid, or a grid element;

wherein the first feature is oriented and aligned to an orientation feature of the first member; and

wherein the first feature is oriented and aligned to the orientation feature of the second member in order compare the second information to the first data are and/or become oriented individually to at least one point , feature and/or particularity, and are aligned and/or become aligned and/or can become aligned relative thereto, wherein at least the point, feature and/or particularity lies in particular in the area of the dentition, tooth, tooth section or in the area of the remaining body, head, face, etc.

Claim 51 (Currently Amended): The method according to claim ± 3, further comprising the steps of:

gathering fifth information about a third feature of the first specimen;

storing the fifth information as third data;

gathering sixth information about the third feature of the second specimen; and

comparing the sixth information to the third data to determine if the sixth information matches or approximately matches the third data to confirm that the second specimen is the first specimen or is not the first specimen;

wherein the third feature is at least a third portion of at

least one third characteristic selected from the group consisting of a third form, a third shape, a third contour, a third volume, a third outline, a third scope, a third proportion, a third measure, a third size, a third particularity, a third surface structure, a third outer geometry, a third inner geometry, a third relation, a third color, a third structure, a third setup, a third lamination, a third composition, a third arrangement, a third reflected light, third light let through, third reflected electromagnetic radiation, third electromagnetic radiation let through, a third spectral composition, a third spectral composition pattern, a third spectral range, a third beam path of the member, a third reflected light pattern, third member data, a third Fourier Transformation, a third Eigenface, a third template, a third artificial parameter, a third natural parameter, a third point, a third intersecting point, a third corner point, a third length, a third line, a third angle, a third surface, a third plane, a third spatial area, a third area, a third space, a third edge, a third pattern, a third grid, a third grid element, a third microstructure, a third macrostructure, and a third texture;

~~at least one additional point and/or one additional feature and/or particularity lies wherein the third feature lies in the a first area of the face and/or in the are of the remaining first~~

body and/or specimen outside of the at least one first tooth or
outside of the at least one first dentition; and

wherein the third feature lies in the first area of the
second specimen outside of the at least one second tooth or
outside of the at least one second dentition that at least such a
point and/or such a feature lies in the area of the tooth and/or
dentition, and at least one other one in the area of the
remaining body, head and/or face.

Claim 52 (Currently Amended): The method according to claim
± 37, wherein the first member is a first living body or a first
dead body, said first member containing a first dentition;

wherein the second member is a second living body or a
second dead body, said second member containing a second
dentition;

wherein the relation of the first member is between a first
point of the first dentition and a second point outside the first
dentition; and

wherein the relation of the second member is between the
first point of the second dentition and the second point outside
the second dentition in which the relationship between at least
one pointed defined in the dentition is established relative to a

~~point in the face or on the surrounding body.~~

Claim 53 (Currently Amended): The method according to claim ~~‡ 50~~, wherein ~~at least one horizontal line and/or the vertical lines and/or the grid and/or a point and/or area thereof is individually oriented and/or aligned relative to at least one point, feature and/or particularity, which can be determined for example by the orientation feature can be determined by at least one control determinant selected from the group consisting of a program, by its an operator, a worker, a user, and/or and a controller, etc.~~

Claim 54 (Currently Amended): The method according to claim ~~‡ 46~~, wherein the areas and/or points on the lines and/or in the grid (e.g., intersecting point, defined grid element and/or defined point therein, point on a line, etc.) that align themselves, and hence the grid and/or lines by features or distinct and/or constructed points, location of the first feature on the first member and on the second member can also be determined for example by the at least one control determinant selected from the group consisting of a program, by its an operator, a worker, a user, and/or and a controller, etc., for

example.

Claim 55 (Currently Amended): The method according to claim
+ 46, further comprising the steps of:

gathering first positioning information about a first
position of the first member;

storing the positioning information as positioning data;
gathering second positioning information about a second
position of the second member; and

comparing the second positioning information with the
positioning data to confirm that the second member is the first
member or is not the first member;

wherein ~~all points, e.g., intersecting points, constructed
and/or naturally existing distinct points, etc., can form
intersecting lines among and with each other, which thereby
generate data concerning about relations and/or patterns, e.g.,
of points, intersecting points, etc., relative to each other and
to the environment, or to the space in which they are located,
and/or about relations between the lengths and/or position of
lines, angles they include and/or surfaces and/or planes and/or
spaces that they form and/or localize and/or envelop, that can
hence be used for identification and/or verification, and/or~~

~~along with information usable for this purpose, e.g., about the first position is at least one position type selected from the group consisting of a pupil location, a body posture, and/or a body position, and/or a head location, and a head position, e.g., and~~

~~wherein the second position is at least one second position type selected from the group consisting of a second pupil location, a second body posture, a second body position, a second head location, and a second head position via the pupil and/or head location, etc., so that the latter can be ascertained.~~

Claims 56-57 (Canceled).

Claim 58 (Currently Amended): The method according to claim ~~± 38~~, wherein ~~the a nature and a type of the first feature number and/or type and/or which of the points, intersecting points, connecting lines and/or lines and/or grids/grid network elements, the width of grid elements, number of distinct and/or constructed points, points intersecting with each other and/or the section edge of the image can be prescribed chosen based on by at least one factor selected from the group consisting of the individual structures a nature of the person, living being and/or individual~~

second member, to be identified and/or verified, and/or by a
preference of the an evaluator of this the method, and/or the a
preference of a programmer, and/or by the a safety requirement of
the a user of this a program, and a safety requirement of a user
of am the method, etc.

Claim 59 (Currently Amended): The method according to claim
± 46, wherein distinct and/or constructed points, lines,
connecting lines and/or patterns are compared by an evaluator who
overlays the data and/or information and/or patterns and/or
images visually(,) the first feature is overlayed on a first
image containing the first information and is overlayed on a
second image containing the second information by an evaluator
via computer or the like.

Claim 60 (Canceled).

Claim 61 (Currently Amended): The method according to claim
± 86, wherein only individual features (e.g., also points, lines,
planes, surfaces, planes, and/or spaces), particularities and/or
characteristics thereof, identification features and/or parts
thereof a peculiar feature of the first member is selected to be

the first feature and/or characterizing the person, living being and/or individual to be identified and/or verified, but at least one, is acquired and/or stored as the basis for reference data and/or acquired in a new acquisition as part of identification and/or verification, as well as used for purposes of verification and identification.

Claim 62 (Currently Amended): The method according to claim ± 61, wherein individual features that are peculiar to the person, living being and/or individual to be identified or verified, but characterizes at least one of the latter, provide reference data and/or are used in a new acquisition as part of identification and/or verification within the part of the second information is used in a search program for preselecting locating the reference first data in order to compare the second information with the first data.

Claim 63 (Currently Amended): The method according to claim ± 31, wherein, for example, the ID, chip card, etc., contains data about personal features (teeth and/or surrounding body structures and/or parts thereof) as data and/or images, etc., based on which the search program selects the reference data the

portable code data is stored in pictural form in the first portable data storage device; and

wherein the fourth information is gathered from a second pictural form from the second portable data storage device.

Claim 64 (Currently Amended): The method according to claim ~~± 31~~, wherein, for example, the ID, visa, chip card, etc., contains data about personal features (e.g., teeth and/or surrounding body structures and/or parts thereof) the second information is stored on the first portable data storage device as images at least one image, as at least one and/or structures structure, (pattern, roughness), or as both an image and a structure which are also acquired using acquisition equipment (e.g., laser, camera, sensor, etc.) in addition to the structures located on the person, living being and/or individual during identification and/or verification, wherein either the acquisition of data based, for example, on the ID and/or chip card, etc., form the reference data for the feature acquisition data based on the person and/or those form the reference data for acquiring data based on the ID and/or chip card; and

wherein the fourth information is gathered from the second portable data storage device from at least one second image, from

at least one second structure, or from at least one second image
and at least one second structure.

Claim 65 (Currently Amended): The method according to claim
‡ 64, wherein the ~~acquisition based on ID and/or chip card need~~
~~not involve the same acquisition system as the acquisition of~~
~~features relating to the person, living being and/or individual~~
fourth information is gathered from the second portable data
storage device using a third device.

Claims 66-67 (Canceled).

Claim 68 (Currently Amended): The method according to claim
‡ 86, which wherein the first information and the second
information are gathered utilizes using electromagnetic radiation
with wavelengths outside that of light.

Claim 69 (Currently Amended): The method according to claim
‡ 3, which combines acquisition wherein at least one of the first
information and the second information are gathered via
electromagnetic radiation having wavelengths outside that of

light; and

wherein at least one of the third information and the fourth information are gathered using with acquisition, for example, via an image acquisition system, a camera systems system, or a laser, etc., in conjunction with one or more of the preceding claims.

Claim 70 (Currently Amended): The method according to claim ~~1~~ 86, which utilizes the data obtained during acquisition wherein the first information is gathered via electromagnetic radiation with wavelengths outside that of light in order to identify or verify a person, living being, item, material, etc. by comparison with data from acquisition, for example,; and

wherein the second information is gathered via using image acquisition, a camera systems system, a lasers laser, and/or or utilizing light in the visible or invisible spectral range, etc., in conjunction with claim 1.

Claim 71 (Currently Amended): The method according to claim ~~1~~ 86, wherein the first information features are detected to generate a pattern is gathered and stored in 2D, and/or in 3D, or in both 2D and 3D with and/or without the use of a coordinate system, with and without use of a grid, wherein the pattern

~~provides data useful for identification and/or verification.~~

Claim 72 (Currently Amended): The method according to claim
+ 86, further comprising the steps of:

gathering third information about at least a portion of a
second feature of the first member;

storing the third information as second data;

gathering fourth information about at least a portion of the
second feature of the second member;

comparing the fourth information with the second data to
confirm that the second member is the first member or is not the
first member;

wherein the information content second feature is at least a
second portion of at least one second characteristic selected
from the group consisting of a surfaces surface, a spaces space,
grid elements, an areas area, etc. (e.g., and a hues hue);

wherein, if the second feature is at least the second
portion of the hue, the hue is measured using gray
scaling, quantities and density of measuring points, number of
pixels or bits, etc., e.g., images surfaces, pixels, etc.)
provide clues as to the structures and distinct points and/or for

~~detecting areas and/or features; and~~

wherein at least one supplementary element selected from the group consisting of grid elements, gray scaling, a quantity of measuring points, a density of measuring points, pixels, bits, and image surfaces is used with the comparison of the fourth information to the second data.

Claim 73 (Currently Amended): The method according to claim ~~± 86~~, further comprising the step of:

wherein compressing the first data compression takes place by compiling the first data, and information and patterns, e.g., forming a superposed pattern or data computations, e.g., vectors or matrix descriptions.

Claim 74 (Currently Amended): The method according to claim ~~± 86~~, further comprising the steps of:

gathering personal information or object information from the first member; and

storing the personal information or the object information as personal data or object data, respectively, linked to the first data wherein the filed reference data from the acquisition

~~of at least one identification feature encode and/or contain (personal) data about the person or, during application on an item, data and/or information about the latter.~~

Claim 75 (Currently Amended): The method according to claim ~~‡ 86, wherein an operator or at least one program comprising the adjustment or selection selects (e.g., by factory, user, operator, person to be identified and/or verified, etc.), the first feature e.g., of the localization, size, number, and patterns of the acquisition areas and/or identification features (e.g., on dentition, body, etc.) and/or data to be used.~~

Claim 76 (Currently Amended): The method according to claim ~~‡ 86, which utilizes wherein a neuronal network is used.~~

Claim 77 (Currently Amended): A ~~system and/or device for acquisition and/or data reconciling,~~ comprising:

~~at least one an acquisition device (e.g., at least one selected from the group consisting of a receiver, and/or a sensor, and/or a detector, and/or a camera, and/or, an image acquisition device, a camera system, a light emitter, a lighting unit, an emitter of electromagnetic radiation, and an emitter of~~

~~a spectral part; with or without at least one light emitter and/or lighting unit) and~~

~~at least one processing and/or and comparison device selected from the group consisting of (e.g., a processing unit, and a central or decentralized data storage device for reference data and/or code data, personal data, etc.).~~

Claim 78 (Currently Amended) : The ~~system and/or device~~ according to claim 77, ~~which contains further comprising~~ at least one laser light emitter and for example at least one a suitable ~~sensor, and/or detector, and/or camera, and/or image acquisition device, etc.~~

Claim 79 (Currently Amended) : The ~~system and/or device~~ according to claim 77, wherein the ~~latter device~~ is portable, and/or ~~and~~ enables ~~at least one data processing function selected from the group consisting of~~ data exchange, and/or data processing, and/or ~~and~~ data comparison with a data pool, ~~said data pool being selected from at least one type selected from the group consisting of reference data, and/or characterizing data, and/or descriptive data, and/or and personal data; even wherein said at least one data processing function is capable of~~

occurring over extended distances via a wireless connection,
~~e.g., radio, and/or forms a toll system in combination with a transmitter and receiver system to additionally acquire current data (speed, traversed distance, elapsed run time, etc.).~~

Claim 80 (Currently Amended): The ~~system and/or device~~ according to claim 77, ~~wherein the~~ further comprising sensors ~~lie~~ lying in a U-shaped profile;

wherein the sensors lying in a U-shaped profile tracing can trace a U around ~~the~~ a face and ~~a~~ head, and/or a body, or a head and a body of the ~~a~~ subject to be identified, and/or verified, or identified and verified.

Claim 81 (Currently Amended): The ~~system and/or device~~ according to claim 77, ~~wherein~~ further comprising a magnification system, ~~e.g., lenses,~~ is located on the device;

wherein the magnification system is located between the ~~conventional systems used or usable for this purpose~~ other elements of the device and ~~the~~ exemplary an object when the device gathers data from the object, or processing on a digital level, for example, enables a magnification.

Claim 82 (Currently Amended): The ~~system and/or device~~ according to claim 77, ~~for use in distance identification, characterized in that, e.g., lenses, are located between the conventional systems used or usable for this purpose and the exemplary object, or processing on a digital level, for example, wherein the device enables a zoom.~~

Claim 83 (Currently Amended): The ~~system and/or device~~ according to claim 77, further comprising a second light emitter; wherein the second light emitter can outputs output light with a power on the an object; and
wherein the power measuring is greater than at least the power of sunlight, and/or wherein the light emitter outputs light with powers on the object that and at most lie below the power damaging to humans or the a feature on the object, depending on application, and/or wherein the light emitter preferably outputs infrared light when the device gathers information about a feature on the human or on the object.

Claim 84 (Currently Amended): The ~~system and/or device~~ according to claim 77, ~~which utilizes further comprising a neuronal network for this purpose.~~

Claim 85 (Currently Amended): The ~~system and/or device~~ according to claim 77, ~~which comprises wherein the device has or produces instructions, e.g., writing and/or words, visual and /or acoustic, for imparting instructions to the a person to be verified or the a living being to be verified, etc., and/or; wherein the device further comprises~~ a mirror for orienting the person and positioning ~~the a~~ personal feature to be drawn upon for identification or verification, ~~and/or; and wherein the device further comprises~~ a target searcher ~~and/or or a~~ target indication for the viewing direction, e.g., in the form of ~~that can produce~~ a laser or image, etc ~~signifying the viewing direction for the living being.~~

Claim 86 (New): A method for authentication comprising the steps of:

gathering first information with a first device about a first feature of at least a portion of at least one first member selected from the group consisting of a first tooth, a first dentition, a first living body, a first dead body, a first person, and a first object;

storing the first information gathered as first data;

gathering second information using a second device about the

first feature of at least a portion of at least one second member selected from the group consisting of a second tooth, a second dentition, a second living body, a second dead body, a second person, and a second object; and

comparing the second information with the first data to determine whether the second information matches or approximately matches the first data to determine whether the second member is the first member or is not the first member;

wherein the first feature is at least a portion of at least one characteristic selected from the group consisting of a form, a shape, a contour, a volume, an outline, a scope, a proportion, a measure, a size, a particularity, a surface structure, an outer geometry, an inner geometry, a relation, a color, a structure, a setup, a lamination, a composition, an arrangement, reflected light, light let through, reflected electromagnetic radiation, electromagnetic radiation let through, a spectral composition, a spectral composition pattern, a spectral range, a beam path of the member, a reflected light pattern, member data, a Fourier Transformation, an Eigenface, a template, an artificial parameter, a natural parameter, a point, an intersecting point, a corner point, a length, a line, an angle, a surface, a plane, a spatial area, an area, a space, an edge, a pattern, a grid, a grid element, a microstructure, a macrostructure, and a texture;

wherein the first device and the second device are the same device or are different devices; and

wherein the first device and the second device work according to the same principle or work according to different principles.

Claim 87 (New): A method for authentication comprising the steps of:

gathering first information with a first device about a first feature of at least a portion of at least one first member selected from the group consisting of a first tooth, a first dentition, a first living body, a first dead body, a first person, and a first object;

storing the first information gathered as first data;

gathering second information from the first member;

storing the second information in a database as code data linked to the first data, said database containing data;

gathering third information using a second device about the first feature of at least a portion of at least one second member selected from the group consisting of a second tooth, a second dentition, a second living body, a second dead body, a second

person, and a second object;

gathering fourth information from the second member;

comparing the fourth information with data in the database until a match or an approximate match of the fourth information to the code data is found or until all data in the database has been searched; and

comparing the third information with the first data, if a match or an approximate match of the fourth information and the code data is found, to determine whether the third information matches or approximately matches the first data to determine whether the second member is the first member or is not the first member;

wherein the first feature is at least a portion of at least one characteristic selected from the group consisting of a form, a shape, a contour, a volume, an outline, a scope, a proportion, a measure, a size, a particularity, a surface structure, an outer geometry, an inner geometry, a relation, a color, a structure, a setup, a lamination, a composition, an arrangement, reflected light, light let through, reflected electromagnetic radiation, electromagnetic radiation let through, a spectral composition, a spectral composition pattern, a spectral range, a beam path of the member, a reflected light pattern, member data, a Fourier

Transformation, an Eigenface, a template, an artificial parameter, a natural parameter, a point, an intersecting point, a corner point, a length, a line, an angle, a surface, a plane, a spatial area, an area, a space, an edge, a pattern, a grid, a grid element, a microstructure, a macrostructure, and a texture;

wherein the first device and the second device are the same device or are different devices; and

wherein the first device and the second device work according to the same principle or work according to different principles.

Claim 88 (New) : The method according to claim 86, further comprising the steps of:

gathering third information about a second feature of the first member;

storing the third information as confirmation data;

gathering fourth information about the second feature of the second member; and

comparing the fourth information to the confirmation data to determine whether the fourth information matches or approximately matches the confirmation data to confirm that the second member

is the first member or is not the first member;

wherein the second feature is at least a second portion of at least one second characteristic selected from the group consisting of a second form, a second shape, a second contour, a second volume, a second outline, a second scope, a second proportion, a second measure, a second size, a second particularity, a second surface structure, a second outer geometry, a second inner geometry, a second relation, a second color, a second structure, a second setup, a second lamination, a second composition, a second arrangement, a second reflected light, second light let through, second reflected electromagnetic radiation, second electromagnetic radiation let through, a second spectral composition, a second spectral composition pattern, a second spectral range, a second beam path of the member, a second reflected light pattern, second member data, a second Fourier Transformation, a second Eigenface, a second template, a second artificial parameter, a second natural parameter, a second point, a second intersecting point, a second corner point, a second length, a second line, a second angle, a second surface, a second plane, a second spatial area, a second area, a second space, a second edge, a second pattern, a second grid, a second grid element, a second microstructure, a second macrostructure, and a second texture.

Claim 89 (New): The method according to claim 86, wherein the first feature is at least a portion of at least one characteristic selected from the group consisting of an inner structure, an outer structure, a microstructure, and a macrostructure;

and wherein the first feature of the second member is physically related to the second member through at least a portion of at least one second characteristic selected from the group consisting of a second inner structure, a second outer structure, a second microstructure, and a second macrostructure.

Claim 90 (New): The method according to claim 28, further comprising the step of:

automatically updating the first data with any newly-acquired data that lies within the tolerance range.

Claim 91 (New): The method according to claim 86, further comprising the steps of:

gathering first conventional information about a first conventionally-authenticated feature of the first member;

storing the first conventional information as conventional

data linked to the first data;

gathering second conventional information about the first conventionally-authenticated feature of the second member;

accessing the conventional data if the second information matches or approximately matches the first data; and

comparing the second conventional information with the conventional data, if the second information matches or approximately matches the first data, to confirm that the second member is the first member or is not the first member;

wherein, if the conventional data is accessed, the first data is used to locate the conventional data.

Claim 92 (New): The device according to claim 77, further comprising a toll system, a transmitter, and a receiver system;

wherein the toll system acquires at least one current data selected from group consisting of speed, traversed distance, and elapsed run time.

Claim 93 (New): The device according to claim 77, wherein the at least one acquisition device further comprises a digital magnifier; and

wherein said digital magnifier is able to magnify information at a digital level.

Claim 94 (New) : The device according to claim 96, wherein the digital magnifier enables a zoom.

Claim 95 (New) : The method according to claim 88, wherein the second feature is at least one second portion of a second relation.

Claim 96 (New) : The method according to claim 28, further comprising the steps of:

gathering new data at repeated specified time intervals; and automatically updating the first data with any new data that lies within the tolerance range.

Claim 97 (New) : The method according to claim 86, further comprising the steps of:

gathering third information about a second feature of the first member;

storing the third information as code data linked to the first data;

if the second information matches or approximately matches the first data, gathering fourth information using the second device about the second feature of the second member; and

if the second information matches or approximately matches the first data, comparing the fourth information to the code data, to determine whether the fourth information matches or approximately matches the code data to confirm whether the second member is the first member or is not the first member;

wherein the second feature is at least a second portion of at least one second characteristic selected from the group consisting of a second form, a second shape, a second contour, a second volume, a second outline, a second scope, a second proportion, a second measure, a second size, a second particularity, a second surface structure, a second outer geometry, a second inner geometry, a second relation, a second color, a second structure, a second setup, a second lamination, a second composition, a second arrangement, a second reflected light, second light let through, second reflected electromagnetic radiation, second electromagnetic radiation let through, a second spectral composition, a second spectral composition pattern, a

second spectral range, a second beam path of the member, a second reflected light pattern, second member data, a second Fourier Transformation, a second Eigenface, a second template, a second artificial parameter, a second natural parameter, a second point, a second intersecting point, a second corner point, a second length, a second line, a second angle, a second surface, a second plane, a second spatial area, a second area, a second space, a second edge, a second pattern, a second grid, a second grid element, a second microstructure, a second macrostructure, and a second texture.

Claim 98 (New) : The method according to claim 87, wherein the second information and the fourth information are about the first feature or are about at least a separate portion of a separate feature of the first member and the second member, respectively.